

## Task A

Step 1.) To create the 6 users I typed in the command “**sudo useradd \_\_\_\_**”. This command allows you to create a user and export the shadow file. After creating the users, to create a password for each I typed in the command “**sudo passwd \_\_\_\_**”. This command allows me to set a password for each user.

For example: **sudo useradd Bob**

sudo passwd Bob

**For each user I created the following passwords:**

**User 1:** Bob

**Password:** apple

**User 2:** Susie

**Password:** 2022

**User 3:** Dave

**Password:** tree23

**User 4:** Fred

**Password:** banana1!\*

**User 5:** Mary

**Password:** Fall25

**User 6:** Sam

**Password:** Summer25!

CYSE LINUX [Running] - Oracle VirtualBox

File Machine View Input Devices Help

File Actions Edit View Help

```
passwd: user 'apple' does not exist

(jasmin㉿Kali)-[~]
$ sudo passwd Bob
New password:
Retype new password:
passwd: password updated successfully

(jasmin㉿Kali)-[~]
$ sudo useradd Susie
(jasmin㉿Kali)-[~]
$ sudo passwd Susie
New password:
Retype new password:
passwd: password updated successfully

(jasmin㉿Kali)-[~]
$ sudo useradd Dave
(jasmin㉿Kali)-[~]
$ sudo passwd Dave
New password:
Retype new password:
passwd: password updated successfully

(jasmin㉿Kali)-[~]
$ sudo useradd Fred
(jasmin㉿Kali)-[~]
$ sudo passwd Fred
New password:
Retype new password:
passwd: password updated successfully

(jasmin㉿Kali)-[~]
$ sudo useradd Mary
(jasmin㉿Kali)-[~]
$ sudo passwd Mary
New password:
Retype new password:
passwd: password updated successfully

(jasmin㉿Kali)-[~]
$ sudo useradd Sam
(jasmin㉿Kali)-[~]
$ sudo passwd Sam
New password:
Retype new password:
passwd: password updated successfully
```

**Step 2.)** To export the users hashes into a file named **01286080.hash** I typed in the command **sudo cp /etc/shadow 01286080.hash**. This command allows me to export the shadow file containing the passwords to the hash file. Afterwards, to confirm that the command was executed properly, I typed in the command **ls -l** and saw that the **01286080.hash** file populated.

```
└─(jasmin㉿Kali)-[~]
$ sudo cp /etc/shadow 01286080.hash

└─(jasmin㉿Kali)-[~]
$ ls -l
total 52
-rw-r----- 1 root      root  2091 Oct  3 20:25 01286080.hash
-rw-r--r--  1 jasmin    jasmin 5332 Sep 14 14:47 copyright_cyse270
drwxrwxr-x  2 jasmin    jasmin 4096 Sep  6 17:41 data
drwxr-xr-x  2 jasmin    jasmin 4096 Aug 28 21:14 Desktop
drwxr-xr-x  2 jasmin    jasmin 4096 Aug 28 21:14 Documents
drwxr-xr-x  2 jasmin    jasmin 4096 Aug 28 21:14 Downloads
drwxr-xr-x  8 jasmin    jasmin 4096 Sep 14 14:44 jasmin
drwxr-xr-x  2 jasmin    jasmin 4096 Aug 28 21:14 Music
drwxr-xr-x  2 jasmin    jasmin 4096 Aug 28 21:14 Pictures
drwxr-xr-x  2 jasmin    jasmin 4096 Aug 28 21:14 Public
drwxr-xr-x  2 jasmin    jasmin 4096 Aug 28 21:14 Templates
drwxr-xr-x  2 jasmin    jasmin 4096 Aug 28 21:14 Videos

└─(jasmin㉿Kali)-[~]
$
```

Step 3. After exporting the files, I entered the command **sudo john --format=crypt 01286080.hash --wordlist=home/student/rock.txt**, which is a command used to crack the passwords and this was my result.

```
(jasmin@Kali)-[~]
$ sudo john --format=crypt 01286080.hash --wordlist=home/student/rockyou.txt
Using default input encoding: UTF-8
Loaded 1 password hash (crypt, generic crypt(3) [?/64])
Cost 1 (algorithm [1:descrypt 2:md5crypt 3:sunmd5 4:bcrypt 5:sha256crypt 6:sha512crypt]) is 0 for all loaded hashes
Cost 2 (algorithm specific iterations) is 1 for all loaded hashes
fopen: home/student/rockyou.txt: No such file or directory
```